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09/913,020 05/06/2002		Elaine Sophie Elizabeth Stokes	P 282705	5058
9629	7590 01/14/2004		EXAMINER	
MORGAN LEWIS & BOCKIUS LLP			TRUONG, TAMTHOM NGO	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Opfilia, 202 STOKES ET AL.								
Examiner Tamthom N. Truong -The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.130(a). In no event, however, may a raply be timely filled after SX(p) 60/HTP Shee than insight give of this communication. If NO ported for reply is specified above, the maximum statutory petited will poply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO ported for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory petited will apply and will egipted SX (p) MONTHS from the mailing date of this communication. If NO period for reply will have deviced the specified above and petited statutory and petited the maximum statutory petited and petited statutory float. If NO petited the maximum statutory petited statutory float. If NO petited equipment statutory petited statutory and petited statutory float. If N		Application No.	Applicant(s)					
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DETAILED ACTION

Applicant's election of Group II (claims 39-49, and 51) in Paper No. 12 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1-38, 50, and 52-60 have been cancelled, leaving claims 39-49, and 51 for consideration along with new claims 61, and 62.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Lack of Written Description (for "prodrug"): Claim 39 is rejected under 35
U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 39 recites the limitation of "prodrug", which does not have a written description in terms of the functional groups bonded to formula (II), and their location on formula (II) or its substituents. Thus, one cannot ascertain the structure of the intended "prodrug".

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- 2. Enablement (for "prodrug"): Claim 39 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 39 is not enabled for the "prodrug" it recites. Since the structure of the claimed "prodrug" cannot be determined, it would require undue experimentation to make and use such a "prodrug".
- 3. Lack of Written Description: Claims 39-45, 49 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 39 allows for 8, 9, 10, 12, or 13-membered bicyclic or tricyclic moiety. However, except quinoline and indoline, the specification does not describe other bicyclic or tricyclic moiety in terms of atom arrangement, and degree of saturation, as well as how the rings are fused. Thus, except quinoline and indoline, the structure of ring C is indeterminate.
- 4. Scope of Enablement: Claims 39-45, 49, 51, and 62 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the preparation and use of compounds of formula II wherein ring C is quinolyl or indolyl, does **not** reasonably provide **enablement** for the **preparation and use** of compounds of formula II wherein ring C is other bicyclic or tricyclic moieties. The specification does not enable any person skilled in the art to

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which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The following factors have been considered in the determination of an enabling disclosure:

- (1) The breadth of the claims;
- (2) The amount of direction or guidance presented;
- (3) The state of the prior art;
- (4) The relative skill of those in the art;
- (5) The predictability or unpredictability of the art;
- (6) The quantity of experimentation necessary;

[See *Ex parte Forman*, 230 USPQ 546 (Bd. Pat. App. & Int., 1986); also *In re Wands*, 858 F. 2d 731, 8 USPQ 2d 1400 (Fed. Cir. 1988)].

- a. The breadth of the claims: The instant claims allow for compounds of formula (II) wherein ring C can be a bicyclic [other than quinoline or indoline] or a tricyclic moiety. The specification does not describe the structural make-up for such a moiety, except quinolyl and indolyl. Thus, one cannot ascertain what other rings can constitute the intended bicyclic or tricyclic moiety.
- b. The amount of direction or guidance presented: Not only there is no general description for a bicyclic or tricyclic moiety, there is no guidance as to how such a ring can be obtained. The generic reaction scheme on page 67 reveals a starting material of formula IV for the addition of ring C to the quinazolyl ring. However, there appears to

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be no guidance as to how formula IV can be prepared or obtained commercially. The provided examples all have ring C as either quinolyl or indolyl ring. Thus, following said examples, one can only obtain compounds of formula (II) with ring C as a quinolyl or indolyl ring, and nothing else.

Regarding the biological activity for the use, it appears that only compounds having quinolyl or indolyl ring were tested. Because each ring system has its own chemical and biological properties, the biological activity for compounds having quinolyl or indolyl ring cannot be extrapolated to compounds having other ring systems.

c. The state of the art, as evident by the teachings of Myers et. al. and Cockerill et. al. (cited on IDS), does not appear to teach the combination of quinazoline-(O/S)-with a bicyclic moiety other than quinoline or indoline.

Therefore, with the **unpredictable nature** of the pharmaceutical art, and limited guidance, the skilled chemist and clinician would have to carry out undue experimentation to make and use compounds of formula II with C as a ring other than quinoline or indoline.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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- 5. Claims 45, and 62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following reasons apply:
 - d. Claim 45 lacks antecedent basis because the proviso for R^2 not to be "substituted or unsubstituted C_{1-5} alkyl, halogeno, C_{1-5} alkoxy, C_{2-5} alkenyl, phenoxy or phenyl C_{1-5} alkoxy" does not have antecedent basis in claim 39.
 - e. In claim 62, the phrase "antiangiogenic or vascular permeability reducing effect" is unclear as to what diseases are directed to. Furthermore, it is not clear if claim 62 is intended as a method of treatment.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.

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- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 39-41, 43, 44, 49, and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Schaper et. al.** (US 5,859,009). In Tables 9 and 10, Schaper et. al. list some substituted quinazolinyl compounds (e.g., compounds #906, #1014, #1022, #1032, etc.) that are analogous to compounds of the instant formula II with the following substituents:

- i. Ring C is a saturated, non-aromatic 10-membered bicyclic moiety;
- ii. R¹ represents C₁₋₄alkyl, C₁₋₄alkoxymethyl;
- iii. n = 0 or 1;
- iv. R^{2a} represents hydrogen.

The disclosed compounds differ from those claimed herein by not having a substituent on the quinazolinyl ring that corresponds to the instant variable R². However, on column 4, the preferred embodiment (starting from line 52) allows for a quinazoline system "which can be substituted in the carbocyclic moiety by fluorine" [emphasis added]. The disclosed compounds have fungicidal property, and can be used in the "hygiene field" (see column 19 lines 13-21), which suggests a topical pharmaceutical composition.

Therefore, one of the ordinary skill in the art would have been motivated to select some compounds of the instant formula II because one would have expected said compounds to have fungicidal activity as well. Thus, at the time of the invention, it would have been obvious to one skilled in the art to make and use some compounds of the instant formula II.

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Claim Objections

7. Claims 46-48, and 61 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Said claims recite species that are not taught by **Schaper et.**al. (US'009) or any prior arts of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 703-305-4485. The examiner can normally be reached on M-F (7 am -12 pm, and 3 pm - 6 pm) starting from 10-1st-03).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on 703-308-4716. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

T. Truong

January 7, 2004